

## Title of the Invention

TUNABLE HIGH-FREQUENCY FILTER ARRANGEMENT AND METHOD FOR  
THE PRODUCTION THEREOF

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## BACKGROUND OF THE INVENTION

## Field of the Invention

10 The invention relates to the field of radio-frequency engineering. It relates in particular to a tunable radio-frequency filter arrangement and to a method for its production.

15 A radio-frequency filter arrangement of this type is known, for example, from US PATENT NO. 6,147,577.

A single tunable dielectric resonator, in which the moving dielectric body can move linearly in the vertical or  
20 horizontal direction in a cutout in the dielectric resonator element is known, by way of example, from EP-A1-0 601 369.

## Description of the Related Art

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Transportable radio link connections (LOS=Line of Sight) have been proven for rapid and flexible construction of wire-free communication networks, in particular in rugged terrain without a suitable infrastructure, and these  
30 operate in the frequency range of two or more GHz (for example 4.4 to 5 GHz; or 14.62 to 15.23 GHz). Appropriate filters, in particular bandpass filters, are required for signal processing within the transmission and reception arrangements for such directional radio links, which  
35 filters are designed not only for individual frequencies